

Amendments to the Claims

1. (Previously presented) In combination

first and second fluid connector means for removably receiving respective first and second warming fluid ports of a heat exchanger and for facilitating passage of a warming fluid, and

support means for supporting said first and second fluid connector means, each of said fluid connector means comprising a passageway for passing said warming fluid and means for engaging a respective said first or second warming fluid port to allow said warming fluid in said passageway to communicate with said port and to physically support said heat exchanger in cooperation with the other of said fluid connector means,

fluid circulation means for circulating said warming fluid to said first and second fluid connector means, and

temperature control means for controlling the temperature of said warming fluid, wherein one of said first and second fluid connector means is movably mounted to said support means for movement with respect to said support means between at least first and second positions, ~~wherein such that~~ said first and second fluid connector means ~~are spaced by a first distance for engaging~~ engage said warming fluid ports when said one of said fluid connectors is in said first position and ~~are spaced by a second distance for releasing~~ release said warming fluid ports when said one of said fluid connectors is in said second position,

wherein each of said means for engaging comprises means for removably receiving or releasing one of said warming fluid ports in a single mechanical action.

2. (Previously presented) A combination according to claim 1 wherein said means for ~~engaging~~ removably receiving or releasing comprises means forming a recess for receiving a said fluid port.

3. (Original) A combination according to claim 2 wherein said recess includes seal means for preventing leakage of said warming fluid.

4. (Original) A combination according to claim 3 wherein said seal is an O-ring seal.
5. (Original) A combination according to claim 1 wherein said support means is elongated in a first direction, said one of said first and second connector means is mounted to said support means for linear movement in said direction toward or away from the other of said first and second connector means between said first and second positions, and said other of said first and second connector means is fixed with respect to said support means.
6. (Original) A combination according to claim 5 wherein said means for engaging comprises a cylindrical recess and wherein said cylindrical recess of said first fluid connector means is axially aligned with said cylindrical recess of said second fluid connector means.
7. (Original) A combination according to claim 2 wherein a longitudinal axis of said recess of said first fluid connector means is parallel to a longitudinal axis of said recess of said second fluid connector means, and said first fluid connector means is mounted for linear movement in the direction of said longitudinal axis.
8. (Original) A combination according to claim 7 further comprising said heat exchanger, wherein said heat exchanger comprises a central tube and an outer tube having a length shorter than that of said central tube wherein said first and second warming fluid ports comprise portions of said central tube which extend beyond respective ends of said outer tube and said central and outer tubes form a passageway for a fluid to be warmed.
9. (Original) A combination according to claim 8 wherein said heat exchanger further comprises first and second end caps, each of said first and second end caps having a first part sealingly secured to an outer surface of a respective end of said outer tube

and a second part extending away from said first part and sealingly engaged to a side of said central tube.

10. (Original) A combination according to claim 9 wherein said second portion of said cap means comprises an open cylinder in contact with said side of said central tube.

11. (Original) A combination according to claim 8 wherein said temperature control means comprises heater means in fluid communication with said warming fluid ports.

12. (Previously presented) A combination according to claim 11 wherein said heater means comprises an electrical fluid heating element, a storage tank containing said first warming fluid, and pump means for circulating said first warming fluid in a circuit including said heating element, said tank, and said central tube of said heat exchanger.

13. (Original) A combination according to claim 12 wherein said heater means and said support means are mounted on a common wheeled base and further comprising switch means for detecting when said heat exchanger is operatively mounted on said support means.

14. (Original) A combination according to claim 13 further comprising filter means in fluid communication with said fluid to be warmed.

15. (Canceled)

16. (Currently amended) A heat exchanger according to claim ~~45~~ 19 wherein said central tube is of aluminum.

17. (Currently amended) A heat exchanger according to claim ~~45~~ 19 wherein said central tube has an exterior surface providing increased surface area.

18. (Original) A heat exchanger according to claim 17 wherein said exterior surface is helical and a longitudinal axis of said central tube is straight.

19. (Currently amended) ~~A heat exchanger according to claim 15~~ A sterile heat exchanger for controlling the temperature of a physiological fluid comprising a central tube having high heat conductivity for carrying a temperature-controlled fluid, an outer tube shorter than said central tube and surrounding a part of said central tube to form a passageway for said physiological fluid between said central and outer tubes, and first and second end caps, each of said end caps having a first part extending axially along an outer surface of said outer tube and being sealed and secured to said outer surface and a second part sealingly engaging said central tube to ensure maintenance of sterility during operation, said second part comprising an elongate cylindrical opening engaging an outer surface of said central tube and extending away from said first part and wherein said inner tube extends beyond each of said second parts and forms two elongate connections for being slidably received in an elongate recess, wherein each of said end caps includes a port for communicating a fluid to be warmed with said passageway.

20. (Previously presented) In combination

first and second fluid connector means for removable receiving respective first and second warming fluid ports of a heat exchanger for receiving a warming fluid, and support means for supporting said first and second fluid connector means,

each of said fluid connector means comprising a passageway for passing said warming fluid and means for engaging a respective said first or second warming fluid port to allow said warming fluid in said passageway to communicate with said port and to physically support said heat exchanger in cooperation with the other of said fluid connector means.

fluid circulation means for circulating said warming fluid to said first and second fluid connector means, and

temperature control means for controlling the temperature of said warming fluid, wherein one of said first and second fluid connector means is movably mounted to said support means for movement with respect to said support means between at least first and second positions, such that said first and second fluid connector means are spaced by a first distance for engaging said warming fluid ports when said one of said fluid connectors is in said first position and are spaced by a second distance for releasing said warming fluid ports when said one of said fluid connector means is in said second position, said means for engaging comprises means forming a recess for receiving a said fluid port, said recess includes an O-ring seal for preventing leakage of said warming fluid, and wherein said support means is elongated in a first direction, said one of said first and second connector means is mounted to said support means for linear movement in said direction toward or away from the other of said first and second connector means between said first and second positions, and said other of said first and second connector means is fixed with respect to said support means.

21. (Previously presented) A combination according to claim 20 wherein said means for engaging comprises a cylindrical recess and wherein said cylindrical recess of said first fluid connector means is axially aligned with said cylindrical recess of said second fluid connector means.